Unnamed Silt Loam 77-Ida-0527

Classification -- medial over loamy, mixed, frigid Typic Vitrandept.

General Site Characteristics

Location -- Benewah County, Idaho, upper Mannering Creek, in the southeast 4 of section 23, T.43N., R.3W.; described -- June 28, 1977, by Bill Sexton; topography -- moderately rolling hills, upper 1/3 of slope; slope -- 29 percent; aspect -- north, 344 degrees; elevation -- 1150 meters; parent material -- volcanic ash over siltite; climate -- subhumid with cool, dry summers and cool, wet winters estimated mean annual precipitation 102 to 114 centimeters, estimated mean annual temperature 7°C; drainage -- well drained; permeability -- medium; erosion -- none to slight; vegetation or use -- Thuja plicata/Pachistima myrsinites habitat type.

Pedon Description

01&2 5-0 centimeters (2-0 inches). Forest litter.

B21ir 0-15 centimeters (0-6 inches). Yellowish brown (10YR 5/4) silt loam, brown (7.5YR 4/4) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine interstitial pores; many very fine, fine and medium roots; clear wavy boundary.

B22ir 15-36 centimeters (6-14 inches). Light yellowish brown (10YR 6/4) silt, brown (7.5YR 4/4) moist; moderate medium granular and weak fine subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine interstitial pores; many very fine, fine, medium and coarse roots; clear wavy boundary.

B23ir 36-56 centimeters (14-22 inches). Very pale brown (10YR 7/4) silt loam, dark yellowish brown (10YR 4/4) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine interstitial pores; many very fine, fine, medium, and coarse roots; abrupt wavy boundary.

IIB24 56-86 centimeters (22-34 inches). Pale brown (10YR 6/3) gravelly silt loam, brown (10YR 4/3) moist; weak and moderate medium subangular blocky structure; friable, slightly sticky and slightly plastic; many very fine tubular pores; common fine and many medium and coarse roots; few thin clay films in pores and on ped faces; 15 percent gravel; clear wavy boundary.

IIC 86-114+ centimeters (34-45+ inches). Very pale brown (10YR 8/3) very gravelly silt loam, yellowish brown (10YR 5/4) moist; massive; friable, slightly sticky and slightly plastic; many very fine tubular pores; common fine roots; 35 percent gravel, 20 percent cobble.

Pedon: 23/qs/C Unnamed Silt Loam 77-Ida-0527

Date: April 1978

Sample No.	Horizon	Depth	pH paste	ECX10 ³	PW at Saturation	Available P	Sesquioxides					
				ECXIO			Di-Citrate Fe	Extract Al	Pyrophosphate Fe	Extract Al		
		cm		mmhos/cm	ov 10	ppm			w			
1	01&2	5-0	_	-	-	-						
2	B21ir	0-15	5.9	0.3	80	3.5						
3	B22ir	15-36	6.4	0.2	76	6.5						
4	B23ir	36-56	5.8	0.2	74	0.2						
5	I1B24	56-86	5.6	0.2	27	0.8						
6	IIC	86-114+	5.5	0.2	28	0.1						

Exchangeable Ions			S	Ext. Acidity CEC		Base	OM	ε	N	C:N	Soil	
Ca	Mg	Na	K	Н		Saturation		<u> </u>		,	Fraction	NaF pH
meq/100 gms					93				ratio			
_	_	_	_	· -	_	-	-	-	. -	_	_	-
3.9	0.7	0.1	1.0	15.2	23.3	27	3.6	2.1	0.16	13	0.86	10.5
3.9	0.6	0.1	1.0	15.0	22.2	27	2.4	1.4	0.10	14	0.89	10.7
2.1	0.5	0.3	0.7	10.9	14.5	25	1.3	0.7	0.05	14	0.92	10.6
3.6	0.8	0.1	0.4	1.4	7.2	78	0.4	0.2	0.03	7	0.77	9.3
3.0	0.5	0.1	0.1	ni1	2.0	100	0.1	0.1	0.01	10	0.37	9.0
	3.9 3.9 2.1 3.6	Ca Mg	Ca Mg Na 3.9 0.7 0.1 3.9 0.6 0.1 2.1 0.5 0.3 3.6 0.8 0.1	Ca Mg Na K	Ca Mg Na K H	Ca Mg Na K H	Ca Mg Na K H Saturation ————————————————————————————————————	Ca Mg Na K H Saturation	Ca Mg Na K H Saturation ————————————————————————————————————	Ca Mg Na K H Saturation	Ca Mg Na K H Saturation	Ca Mg Na K H Saturation Fraction

Remarks: CECs leached with 10% acidified NaCl. Nitrogens and CECs ran on Technicon.

Analysis by: Nancy Parrott

Pedon: 23/qs/C

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			Partic	le Size Dist	ribution (m	Gravel & Stone					
Depth	VC5	ÇS	MS	FS	VFS	TS	TSi	TC	>	2 mni	Textural
<u> </u>	2-1.0	1-0.5	0.5-0.25	0.25-0.1	0.1-0.05	2-0.05	0.05-0.002	< 0.002	wt.	vol.	Classes
СШ				·	%	··		·		*	
5-0	_	_	_	_	_	_	-	_	_	-	-
0-15	0.93	0.70	0.41	2.01	7.74	11.78	78.11	10.11	15	4	Silt loam
15-36	0.21	0.38	0.21	1.51	7.99	10.31	81.80	7.89	11	. 3	Silt
36-56	0.39	0.32	0.27	2.83	14.60	18.40	75.91	5.69	8	2	Silt loam
56-86	0.93	1.37	0.92	3.48	13.26	19.96	71.66	8.38	23	15	Gr. silt loam
86-114+	0.87	0.56	0.40	3.40	24.33	29.56	66.74	3.70	63	59	V. gr. silt loam

	Silt Size Distr	ibution (mm)			Water	Content	Liquid	Plastic	Plastic	
Depth	Cosi Msi	FSì		ensity	1/3	15	Limit	Limit	Index	
	0.05-0.02 0.02-0	.005 0.005-0.002	Clod	Core	Bar	Bar				
cm			g/	cc —		¢/	·	·		
5-0				-	-	-				
0-15		1	no clods	0.64	46.0	13.2				
15-36		1	no clods	0.66	51.0	12.0				
36-56		1	no clods	0.67	47.7	8.3				
56-86			1.67	1.53	23.6	4.8			*	
86-114	+		2.22	no core	16.2	2.2				

Remarks: Centrifuge method, 5% Na hexametaphosphate added, sonified.
When two values for BD present, they were averaged to compute
% vol. gravel.

Analysis by: Anita Falen